

FIG.1



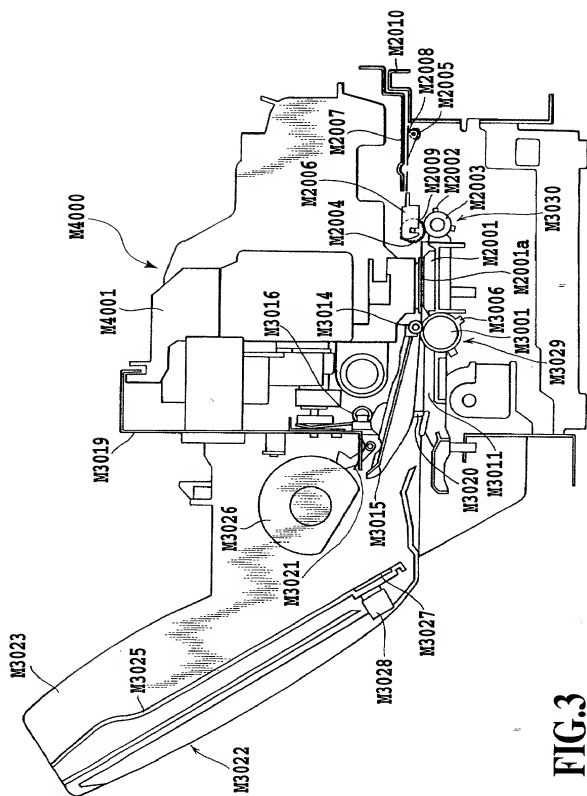


FIG. 3

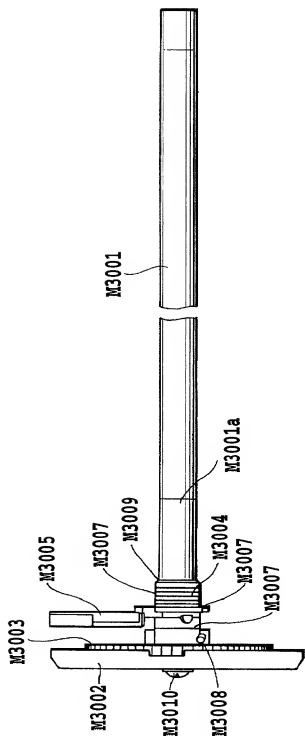


FIG.4

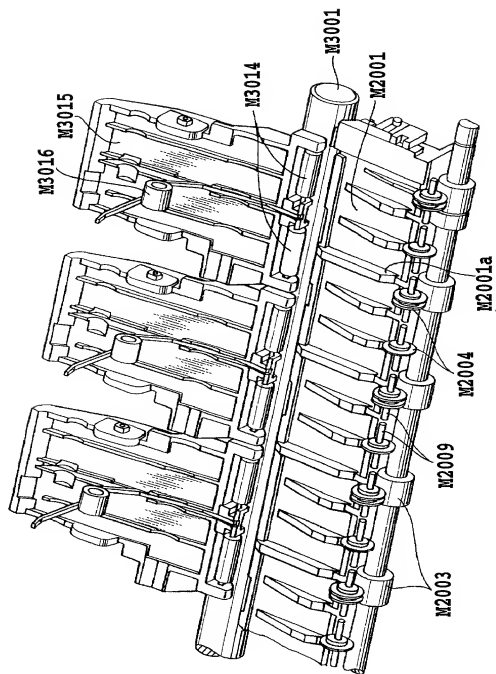


FIG.5

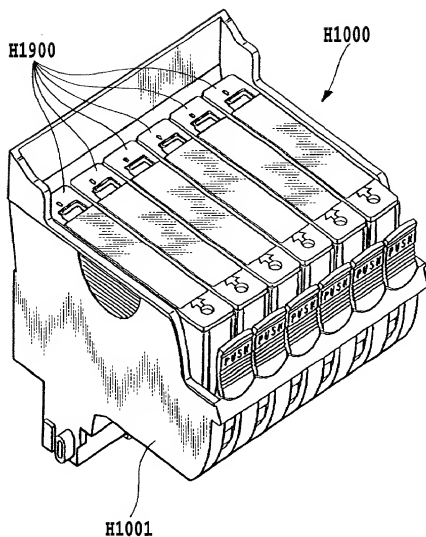


FIG.6

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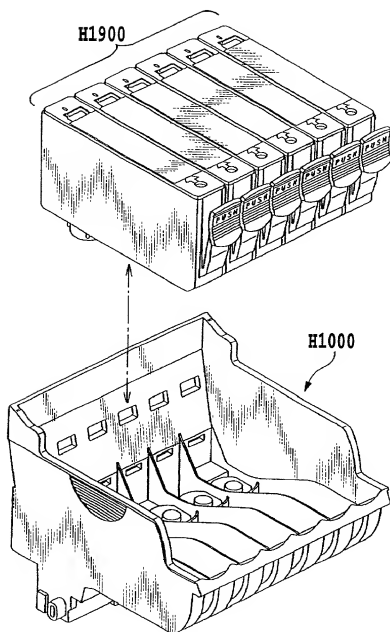
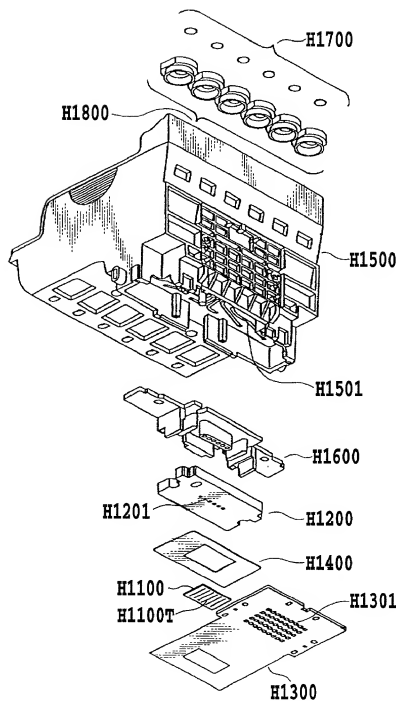


FIG.7



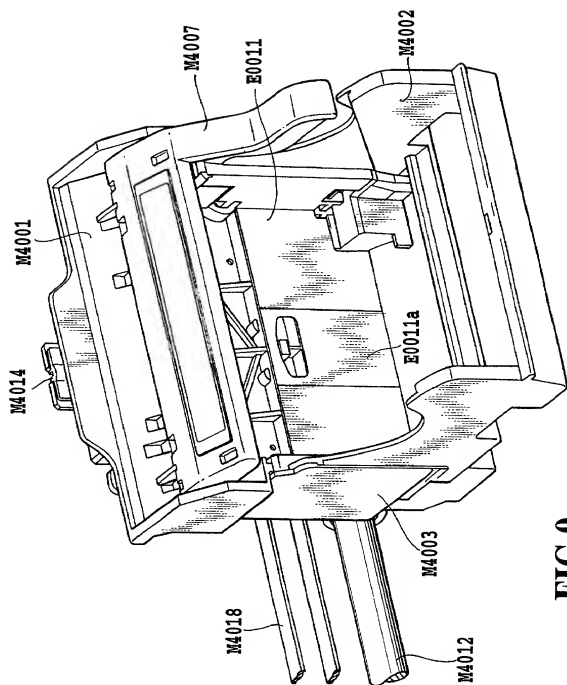
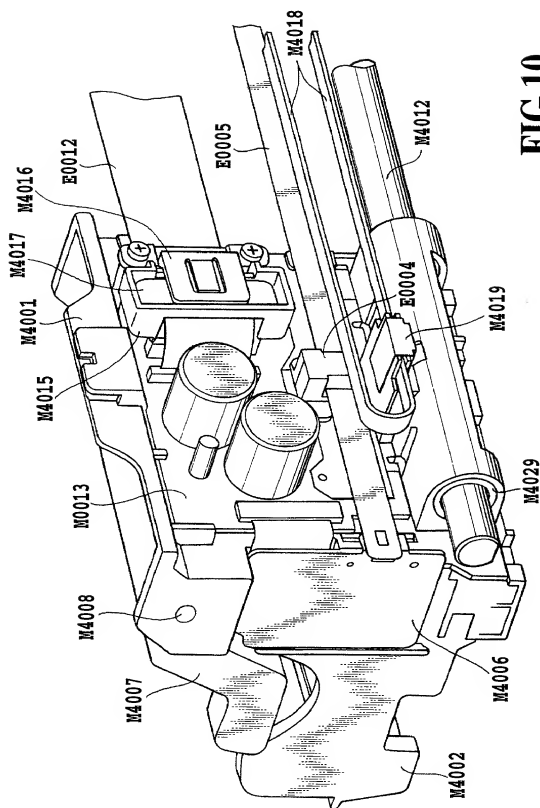


FIG.9

**FIG.10**

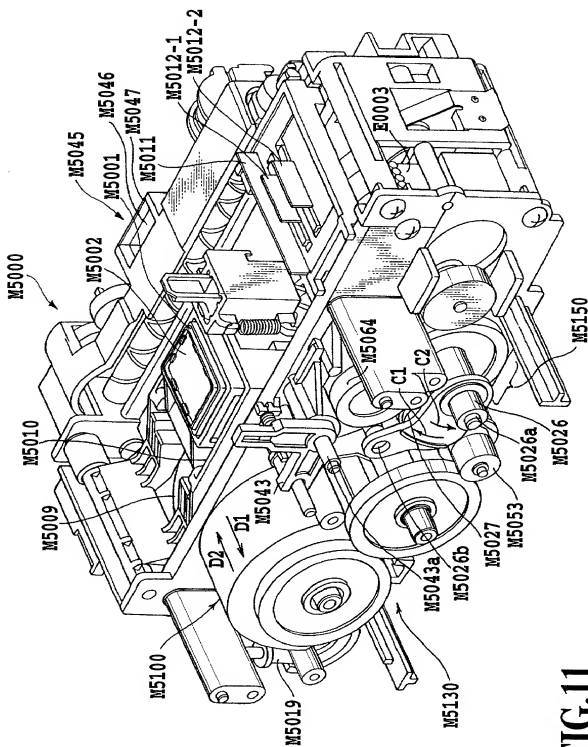


FIG.11



FIG.12

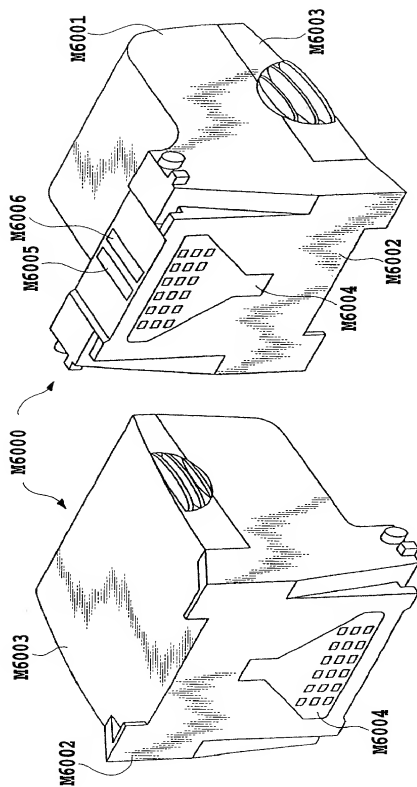


FIG. 13A

FIG. 13B

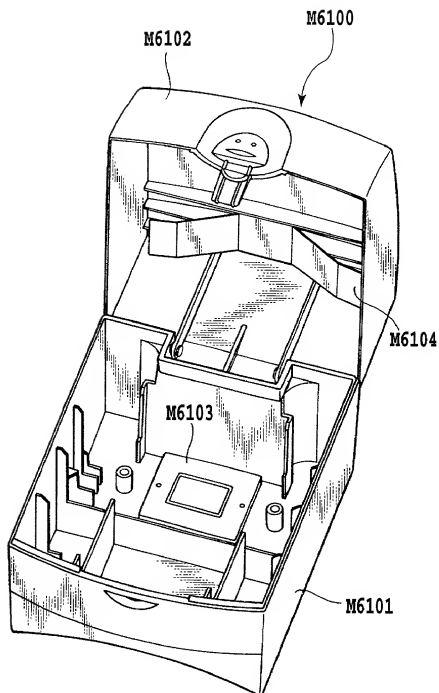


FIG.14

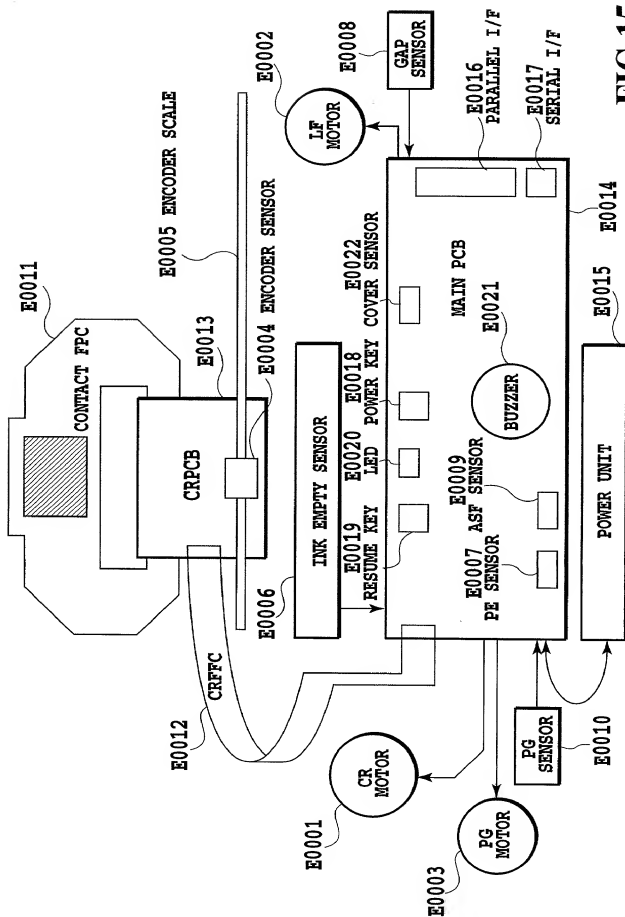
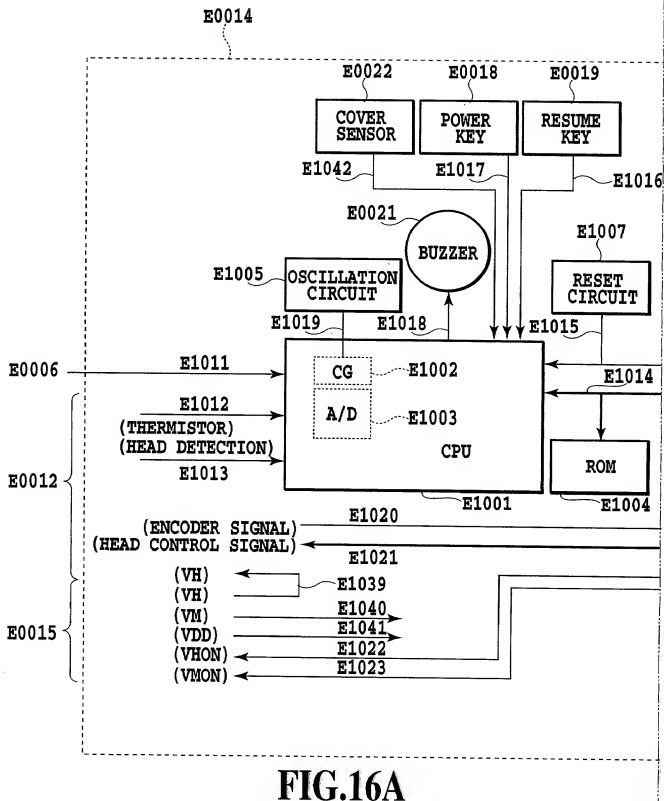


FIG.15

FIG.16

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FIG.16A FIG.16B



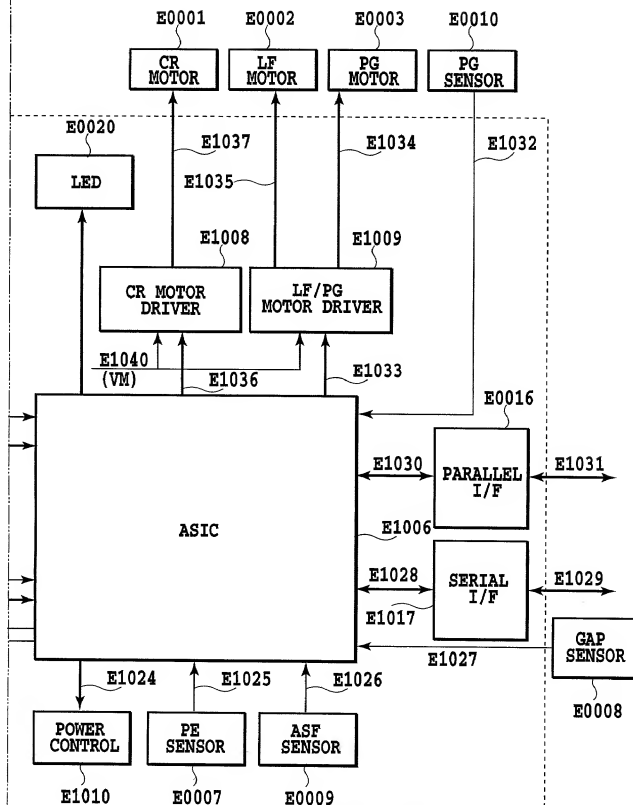


FIG.16B

FIG.17

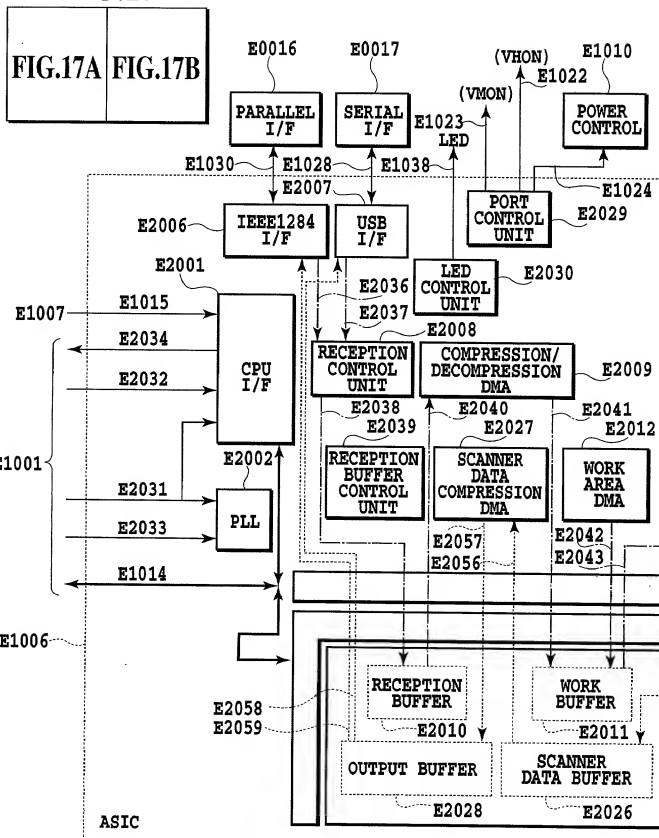


FIG.17A

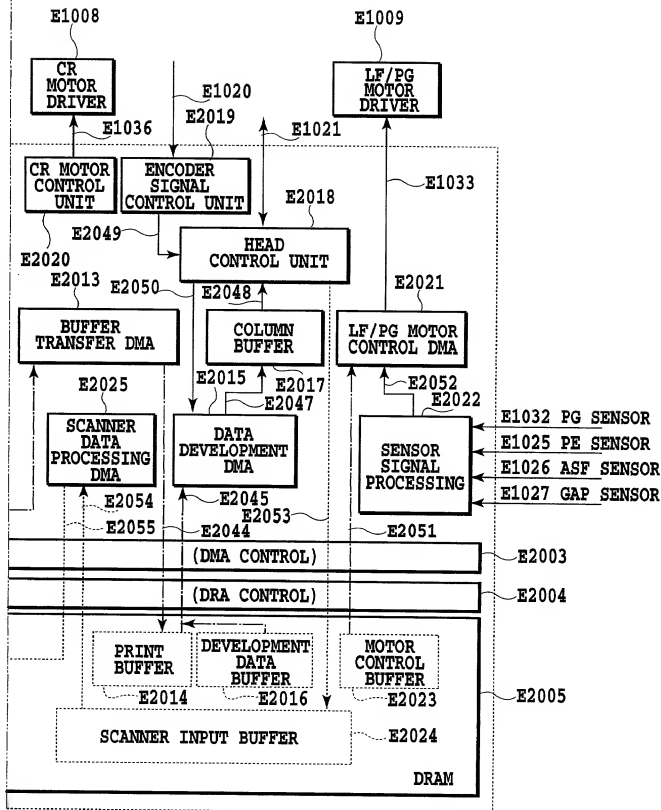


FIG.17B

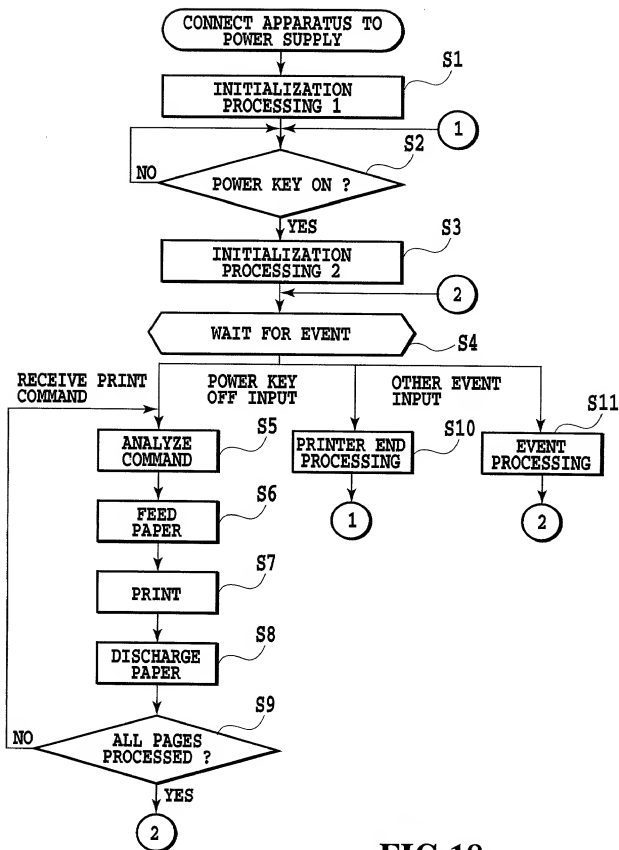
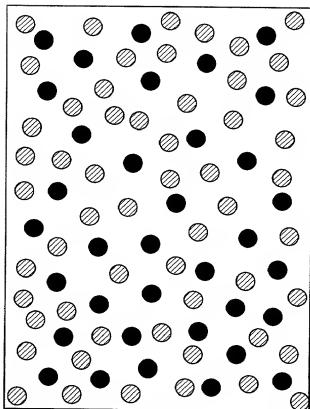


FIG.18

PATCH PRINTED ON
AREA OF SHEET
WHICH IS ENSURED
THAT SHEET IS FED
ACCURATELY
(FIRST AREA)

FIG.19A



PATCH PRINTED ON
AREA OF SHEET
WHICH IS NOT
ENSURED
THAT SHEET IS FED
ACCURATELY
(SECOND AREA)

FIG.19B

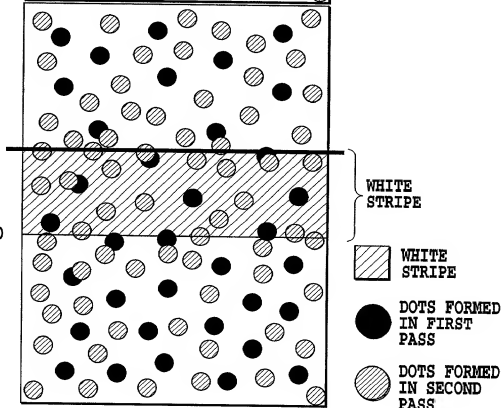
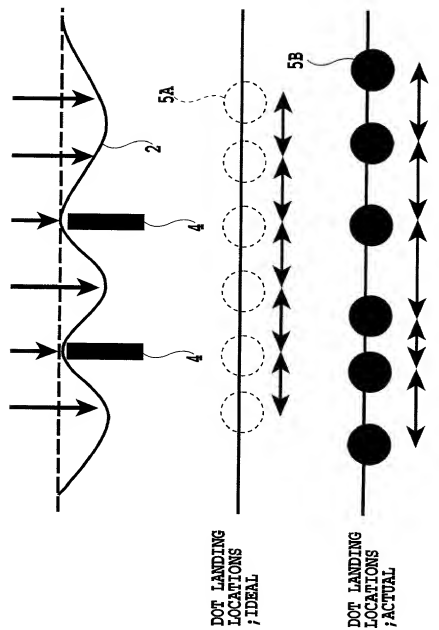


FIG.20



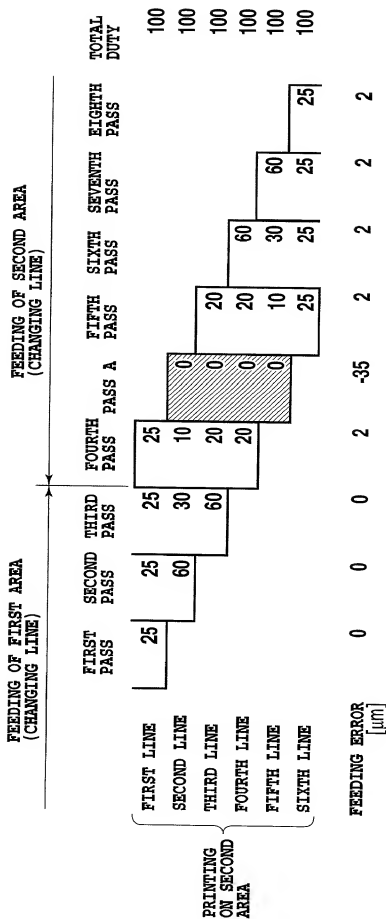


FIG.21

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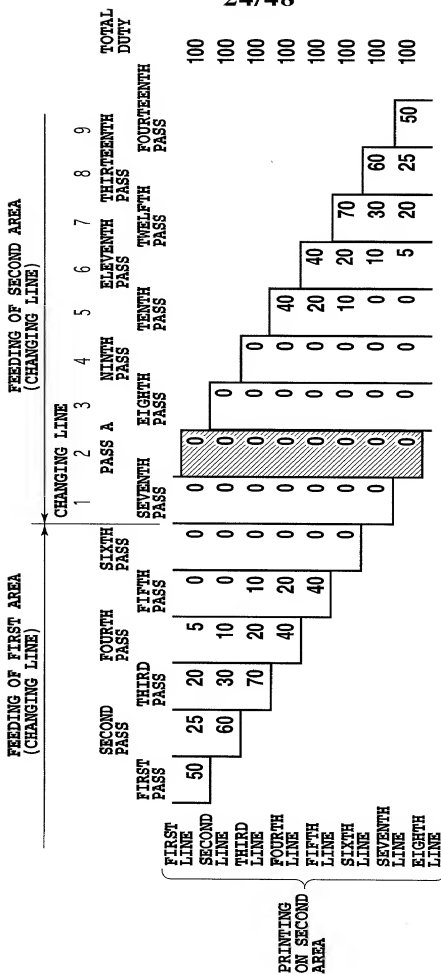
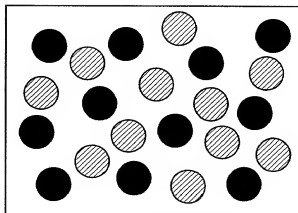


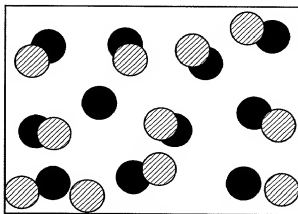
FIG.22

FIG.23A



DOT FORMATION WITHOUT
DEVIATION OF DOTS

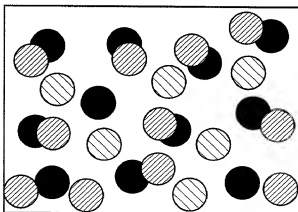
FIG.23B



DOT FORMATION WITH
DEVIATION OF DOTS
CAUSED BY FEEDING ERROR

- DOTS FORMED
IN FIRST PASS
- ▨ DOTS FORMED
IN SECOND PASS
- NOISE DOTS

FIG.23C



DOT FORMATION OBTAINED
BY ADDING NOISE DOTS
TO THAT OF FIG.23B

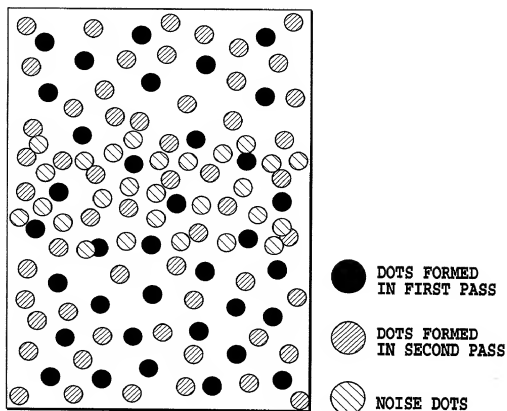


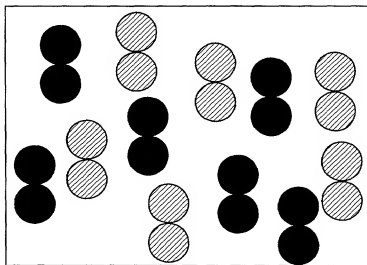
FIG.24

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FIRST NEW LINE ;NOISE: 0%
SECOND NEW LINE ;NOISE: 1%
THIRD NEW LINE ;NOISE: 3%
FOURTH NEW LINE ;NOISE: 5%
FIFTH NEW LINE ;NOISE: 3%
SIXTH NEW LINE ;NOISE: 1%
SEVENTH NEW LINE ;NOISE: 0%

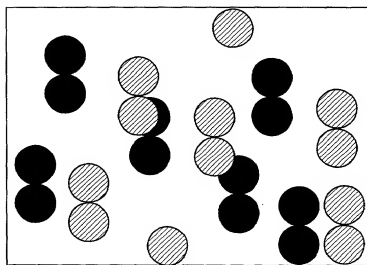
FIG.25

FIG.26A



DOT FORMATION WITHOUT FEEDING ERROR

FIG.26B



DOT FORMATION WITH FEEDING ERROR

● DOTS
FORMED
IN FIRST
PASS

◐ DOTS
FORMED
IN SECOND
PASS

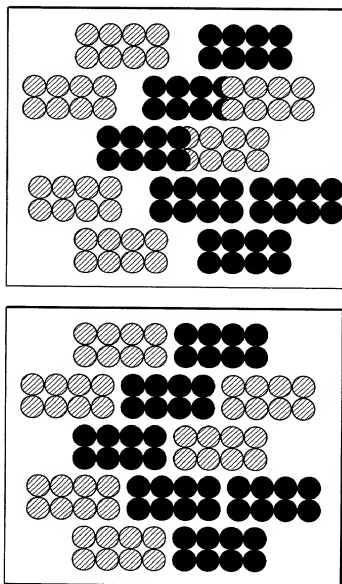
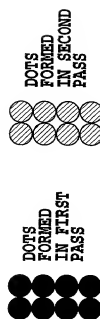
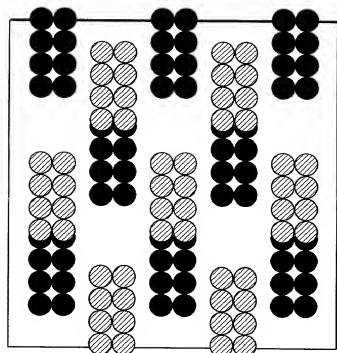
DOT FORMATION WITH
FEEDING ERROR

FIG.27B

DOT FORMATION WITHOUT
FEEDING ERROR

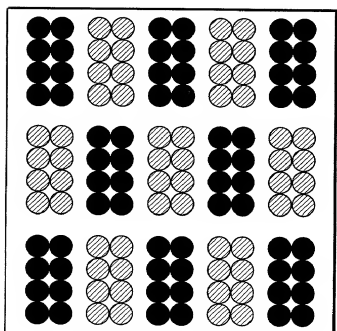
FIG.27A





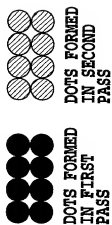
DOT FORMATION WITH ERROR
IN MAIN-SCANNING DIRECTION

FIG. 28B



DOT FORMATION WITHOUT ERROR
IN MAIN-SCANNING DIRECTION

FIG. 28A



DOTS FORMED
IN FIRST
PASS

DOTS FORMED
IN SECOND
PASS

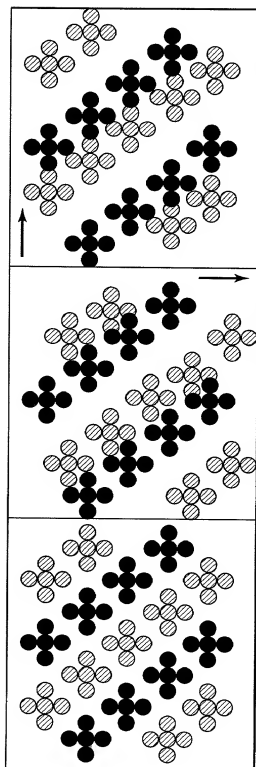
FIG.29A
DOT FORMATION
WITHOUT FEEDING ERRORFIG.29B
DOT FORMATION WITH ERROR
IN SUB-SCANNING DIRECTIONFIG.29C
DOT FORMATION WITH ERROR
IN MAIN-SCANNING DIRECTION

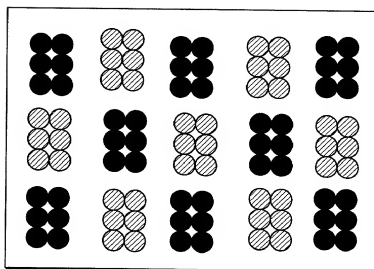
FIG.29A

FIG.29B

FIG.29C

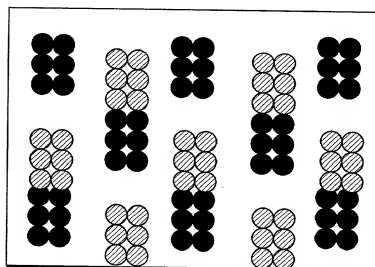


FIG.30A

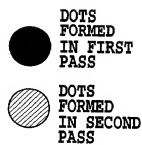


DOT FORMATION WITHOUT FEEDING ERROR

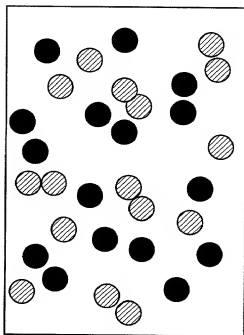
FIG.30B



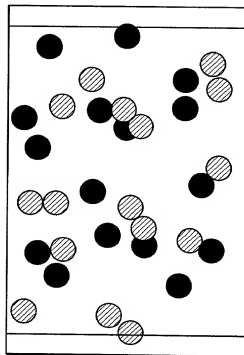
DOT FORMATION WITH FEEDING ERROR



RANDOM DOT FORMATION
(CONTAINING LOW FREQUENCY COMPONENTS)



DOT FORMATION
WITHOUT FEEDING ERROR



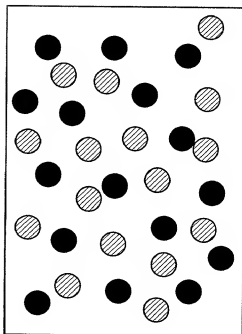
DOT FORMATION
WITH FEEDING ERROR

FIG.31A

FIG.31B

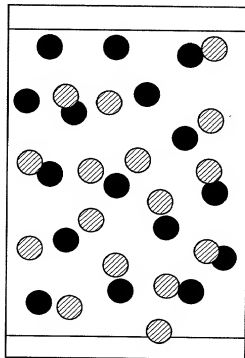
● DOTS FORMED
IN FIRST
PASS
◐ DOTS FORMED
IN SECOND
PASS

DOT FORMATION WITH USE OF BLUE NOISE
(HIGH FREQUENCY COMPONENTS) MASK



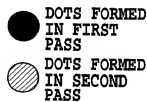
DOT FORMATION
WITHOUT FEEDING ERROR

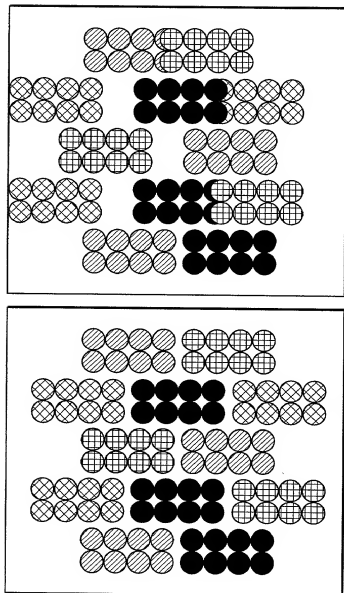
FIG.32A



DOT FORMATION
WITH FEEDING ERROR

FIG.32B



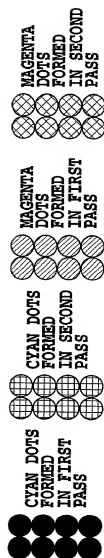


DOT FORMATION WITHOUT
FEEDING ERROR

DOT FORMATION WITH
FEEDING ERROR

FIG.33A

FIG.33B



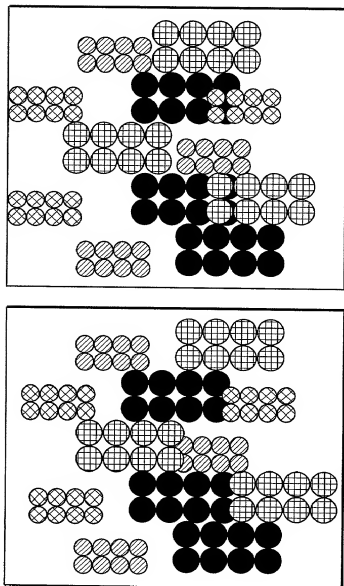
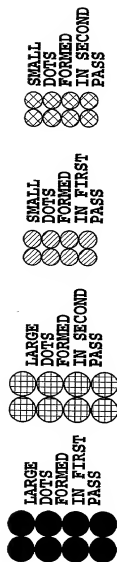
DOT FORMATION WITHOUT
FEEDING ERRORDOT FORMATION WITH
FEEDING ERROR

FIG. 34A

FIG. 34B



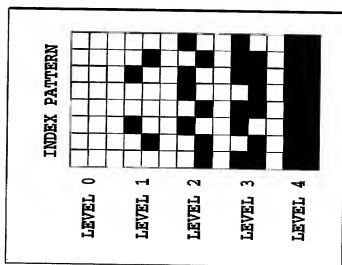


FIG.35A

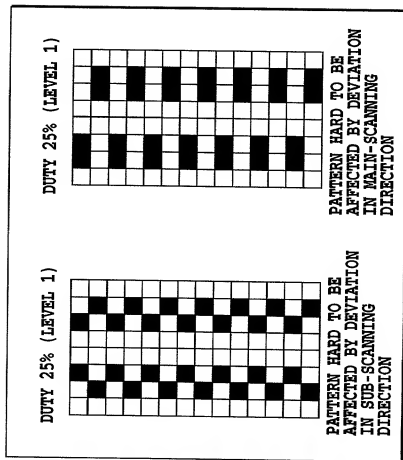


FIG.35B

NORMAL DIFFUSION
COEFFICIENT

		*	7				
5	3	1	0				

FIG.36A

DIFFUSION
COEFFICIENT USED
FOR CASE OF LARGE
DEVIATION IN
MAIN-SCANNING
DIRECTION

		*	7	5	3	2	1
8	6	5	4	3	2	1	0

FIG.36B

DIFFUSION
COEFFICIENT USED
FOR CASE OF LARGE
DEVIATION IN
SUB-SCANNING
DIRECTION

		*	9	5	2	1	
8	6	5	4	3	1	1	
5	6	3	5	5	6	6	
4	4	3	4	4	5	5	
3	3	3	4	4	3	3	
1	2	6	7	8	9	0	

FIG.36C

* SUBJECT PIXEL

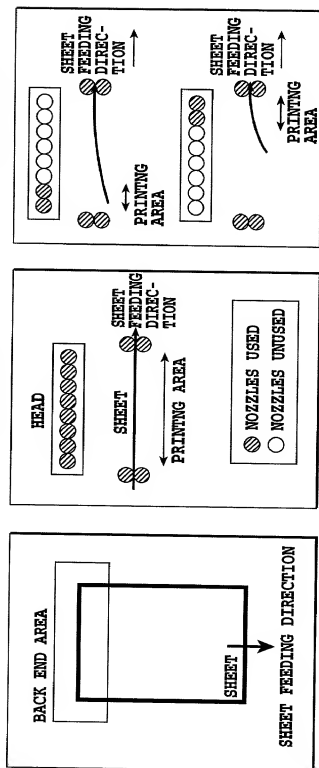


FIG.37A

FIG.37B

FIG.37C



2025

63-NOZZLE FEEDING

256-NOZZLE 63-NOZZLE

64-NOZZLE
FEEDING

START OF PRINTING
ON BACK END AREA

15-NOZZLE FEEDING → 15 15 15 15
16-NOZZLE FEEDING → 16 16 16 16
16-NOZZLE FEEDING → 16 16 16 16
16-NOZZLE FEEDING → 16 16 16 16
15-NOZZLE FEEDING → 15 15 15 15
16-NOZZLE FEEDING → 16 16 16 16
16-NOZZLE FEEDING → 16 16
16-NOZZLE FEEDING → 16

FIG.38B



FIG.38C

FRONT END PROCESS (4-PASS)
64/256-NOZZLE FEEDING

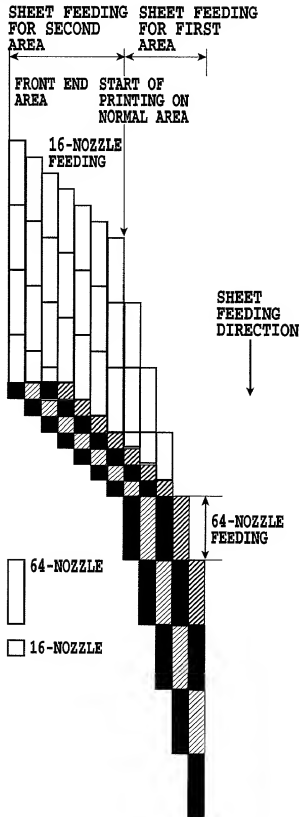


FIG.39A

BACK END PROCESS (4-PASS)
256/64-NOZZLE FEEDING

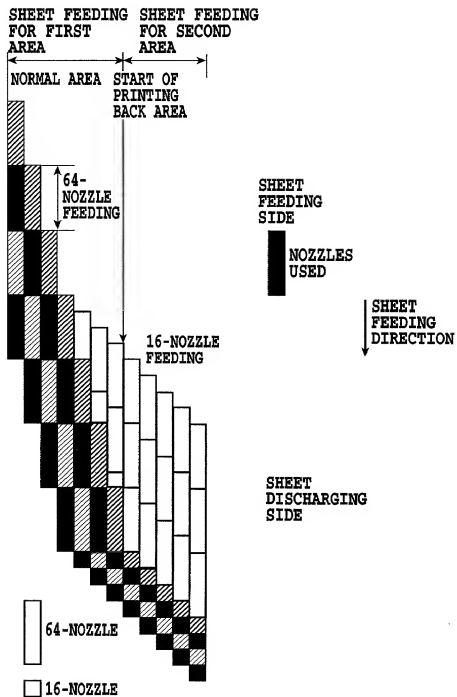


FIG.39B

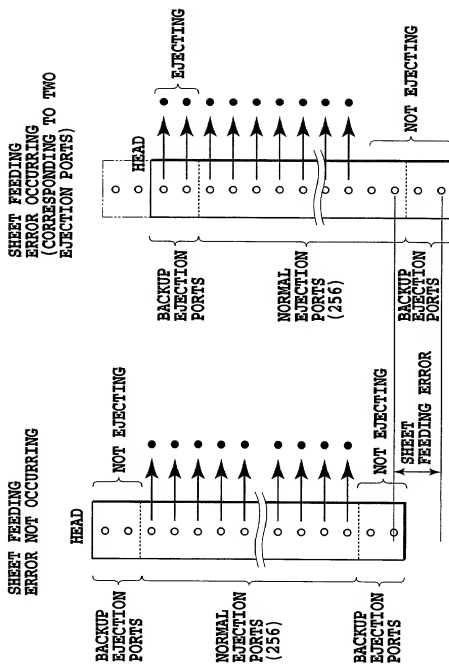


FIG.40

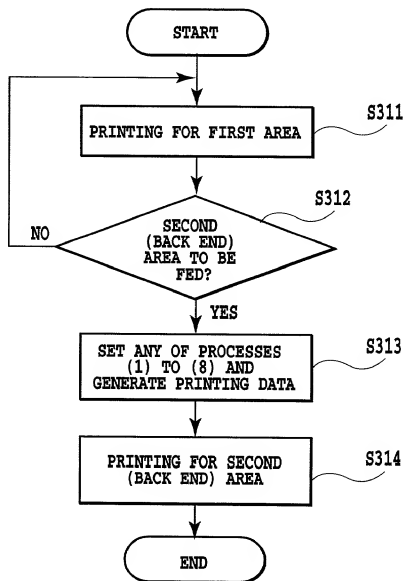


FIG.41

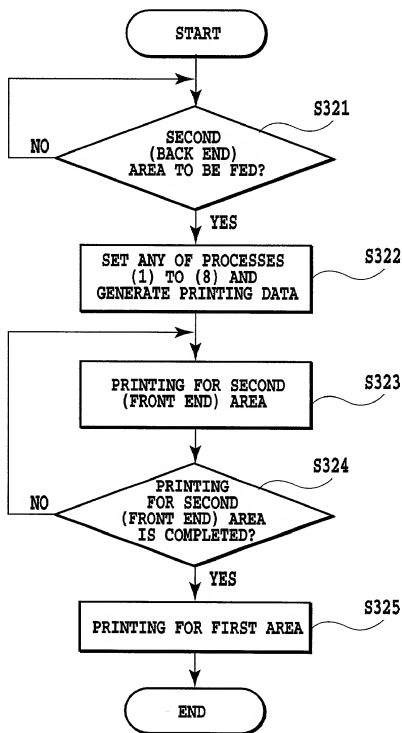


FIG.42

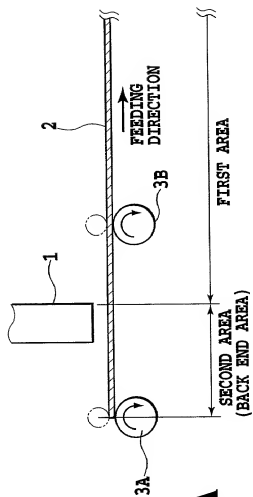


FIG. 43A

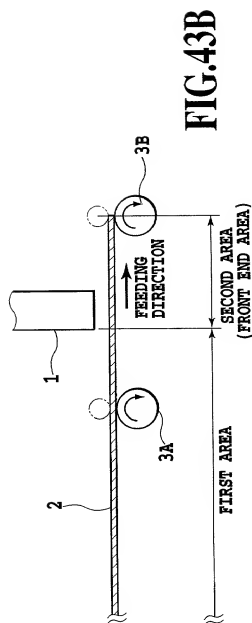


FIG. 43B